

INFORMATION DISCLOSURE STATEMENT

Applicant

Steven F. Bolling, et al.

App. No.

10/706,346

Filed

November 12, 2003

For

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TIP

Examiner

Unknown

Group Art Unit

3763

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Enclosed is form PTO-1449 listing 178 references. Copies of disclosed U.S. patents and publications are not included pursuant to PTO waiver of the requirement under 37 C.F.R. § 1.98(a)(2)(i) for applications filed after June 30, 2003. Copies of other references listed, are enclosed.

This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: Apr. 1 12, 2009

Andrew M. Douglas

Registration No. 51,212

Attorney of Record

Customer No. 20,995

(949) 760-0404

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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(USASEVERAL SHEETS IF NECESSARY)

ATTY, DOCKET NO.	APPLICATION NO.		
ORQIS.007A	10/706,346		
APPLICANTS Steven F. Bolling, et al.			
FILING DATE	GROUP		
November 12, 2003	3763		

U.S. PATENT DOCUMENTS								
	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)		
1	6,685,621	02/03/04	Bolling, et al.					
2	6,610,004	8/26/03	Viole et al.					
3	6,558,356	7/1998	Barbut					
4	6,514,226	02/04/03	Levin et al.	-				
5	6,488,662	12/03/02	Sirimanne					
6	6,428,464	08/06/02	Bolling					
7	6,390,969	5/21/02	Bolling et al.					
8	6,387,037	05/15/02	Bolling, et al.					
9	6,371,935	04/16/02	Macoviak et al.					
10	6,299,575	10/09/01	Bolling					
11	6,287,608	09/11/01	Levin et al.					
12	6,200,260	03/13/01	Bolling					
13	6,245,045 B1	6/2001	Stratienko					
14	6,228,052 B1	5/2001	Okada et al.					
15	6,224,540	5/01/01	Lederman et al.					
16	6,221,103	4/24/01	Melvin					
17	6,190,408	2/20/01	Melvin					
18	6,183,411	2/06/01	Mortier et al.					
19	6,085,754	7/11/00	Alferness et al.					
20	6,059,760	05/09/00	Sandmore et al.					
21	6,044,845	04/04/00	Lewis					
22	5,964,694	10/12/99	Siess et al.					
23	5,941,813	8/24/99	Sievers et al.					
24	5,911,685	6/15/99	Siess et al.					
25	5,851,174	12/22/98	Jarvik et al.					
26	5,824,070	10/20/98	Jarvik					
27	5,807,311	09/15/98	Palestrant					
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	1 6,685,621 2 6,610,004 3 6,558,356 4 6,514,226 5 6,488,662 6 6,428,464 7 6,390,969 8 6,387,037 9 6,371,935 10 6,299,575 11 6,287,608 12 6,200,260 13 6,245,045 B1 14 6,228,052 B1 15 6,224,540 16 6,221,103 17 6,190,408 18 6,183,411 19 6,085,754 20 6,059,760 21 6,044,845 22 5,964,694 23 5,941,813 24 5,911,685 25 5,851,174 26 5,824,070	1 6,685,621 02/03/04 2 6,610,004 8/26/03 3 6,558,356 7/1998 4 6,514,226 02/04/03 5 6,488,662 12/03/02 6 6,428,464 08/06/02 7 6,390,969 5/21/02 8 6,387,037 05/15/02 9 6,371,935 04/16/02 10 6,299,575 10/09/01 11 6,287,608 09/11/01 12 6,200,260 03/13/01 13 6,245,045 B1 6/2001 14 6,228,052 B1 5/2001 15 6,224,540 5/01/01 16 6,221,103 4/24/01 17 6,190,408 2/20/01 18 6,183,411 2/06/01 19 6,085,754 7/11/00 20 6,059,760 05/09/00 21 6,044,845 04/04/00 22 5,964,694 10/12/99 23 5,941,813 8/24/99 25 5,851,174 12/22/98 <td> DOCUMENT NUMBER DATE</td> <td> DOCUMENT NUMBER</td> <td> DOCUMENT NUMBER DATE</td>	DOCUMENT NUMBER DATE	DOCUMENT NUMBER	DOCUMENT NUMBER DATE		

EXAMINER	DATE CONSIDERED

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

RCE ATTY, DOCKET NO. FICE ORQIS,007A

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U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME .	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)	
	28	5,785,686	7/1998	Runge, Thomas M.				
	29	5,749,855	05/12/98	Reitan				
	30	5,746,575	05/05/98	Westphal et al.				
	31	5,584,804	12/17/96	Klatz et al.				
	32	5,776,111	07/07/98	Tesio				
	33	5,562,595	10/08/96	Neisz				
	34	5,571,093	11/05/96	Cruz et al.			•	
	35	5,554,136	09/10/96	Luther				
	36	5,533,958	6/9/96	Wilk				
	37	5,522,800	06/04/96	Crocker				
	38	5,514,073	5/7/96	Miyata et al.			-	
	39	5,511,958	04/30/96	Chen et al.				
	40	5,505,710	4/1996	Dorsey, III				
	41	5,503,615	04/30/96	Goldstein				
	42	5,486,159	01/23/96	Mahurkar				
	43	5,472,417	12/05/95	Martin et al.				
	44	5,453,084	09/26/95	Moses				
	45	5,453,076	09/26/95	Kiyota et al.				
	46	5,437,601	8/1/95	Runge				
	47	5,433,731	7/18/95	Hoegnelid et al.				
	48	5,429,584	07/04/95	Chiu				
	49	5,413,549	5/9/95	Leschinsky				
	50	5,403,291	04/04/95	Abrahamson				
	51	5,278,230	01/03/95	Mahurkar				
	52	5,376,113	12/27/97	Jansen et al.				
	53	5,374,239	12/20/94	Mischenko				
	54	5,352,180	10/04/94	Candelon et al.				
	55	5,346,458	09/13/94	Affeld				

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55 56 56 66 67 62	56 5,332 57 5,316 58 5,306 59 5,296 60 5,273	2,403 8,518 0,113 0,227 3,518	DATE 07/26/94 06/07/94 04/05/94 3/1/94	NAME Kolff Plechinger et al. Arpesella et al.	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
55 56 56 66 67 62	57 5,316 58 5,306 59 5,296 60 5,273	8,518 0,113 0,227	06/07/94 04/05/94	Plechinger et al.			
56 56 66 67 62	58 5,300 59 5,290 60 5,273	0,113 0,227	04/05/94				
59 60 62 63	59 5,296 60 5,273	0,227		Arpesella et al.			
66 67 63	60 5,273		3/1/94				
6° 62 6°		3,518		Pasque			
62	61 5,26		12/28/93	Lee et al.			
63		7,940	12/07/93	Moulder			
	62 5,263	3,978	11/23/93	Kaufman et al.			
64	63 5,21	1,659	05/18/93	Strimling et al.			
	64 5,176	6,619	01/05/93	Segalowitz		-	
65	65 5,17°	1,207	12/15/92	Whalen			
66	5,169	9,379	12/08/92	Freed et al.			
67	67 5,169	9,378	12/08/92	Figuera			
68	68 5,147	7,388	09/15/92	Yamazaki			
69	5,14	7,281	09/15/92	Thornton et al.			
7(70 5,133	3,744	07/28/92	Ramos Martinez			
7	71 5,13	1,905	07/21/92	Grooters			
72	72 5,129	9,878	07/14/92	Takano et al.			
73	73 5,116	6,564	05/26/92	Jansen et al.			
74	74 5,098	8,370	03/24/92	Rahat et al.			
75	75 5,092	2,844	03/03/92	Schwartz et al.			
76	76 5,08	7,247	02/11/92	Horn et al.			
77	77 5,089	9,017	02/18/92	Young et al.			
78	78 5,069	9,662	12/03/91	Bodden			
79	79 5,059	9,167	10/19/91	Lundquist et al.		-	
80	B0 5,04°	1,098	08/20/91	Loiterman et al.			
8	81 5,020	0,516	06/04/91	Biondi et al.			
82	82 4 994	 5,857	02/26/91	Amold	-	<u> </u>	

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	U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)		
	83	4,995,856	02/26/91	Heindl et al.					
	84	4,944,745	07/31/90	Sogard et al.					
	85	4,994,078	02/19/91	Jarvik					
	86	4,968,293	11/06/90	Nelson					
	87	4,957,504	09/18/90	Chardack					
	88	4,927,407	05/22/90	Dorman			·		
	89	4,925,452	05/15/90	Melinyshyn et al.					
-	90	4,908,012	03/13/90	Moise et al.					
	91	4,906,229	03/06/90	Wampler					
	92	4,902,273	02/20/90	Choy et al.					
	93	4,902,272	02/20/90	Milder et al.					
	94	4,895,150	01/23/90	Isaacson et al.					
	95	4,883,462	11/28/89	Williamson et al.					
	96	4,872,874	10/10/89	Taheri					
	97	4,861,330	08/29/89	Voss					
	98	4,838,889	06/13/89	Kolff					
	99	4,822,357	04/18/89	Forster et al.					
	100	4,771,765	09/20/88	Choy et al.					
	101	4,759,760	07/26/88	Snapp Jr.					
	102	4,756,302	07/12/88	Portner et al.					
	103	4,719,921	01/19/88	Chirife			•		
	104	4,697,574	10/6/87	Karcher et al.					
	105	4,690,134	09/01/87	Snyders					
	106	4,688,998	08/25/87	Olsen et al.					
	107	4,685,446	08/11/87	Choy					
	108	4,666,443	05/19/87	Portner					
	109	4,625,712	12/02/86	Wampler					

EXAMINER

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

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	110	4,611,578	05/27/86	Helmes			
	111	4,573,997	03/04/86	Wisman et al.			
	112	4,569,332	2/11/86	Schiff et al.			
-	113	4,552,522	11/12/85	Polaschegg et al.			
	114	4,546,759	10/15/85	Solar			-
	115	4,543,087	09/24,85	Sommercom, et al.			
	116	4,522,195	06/11/85	Schiff			
	117	4,459,977	07/17/84	Pizon et al.			
	118	4,457,673	07/03/84	Conley et al.			
	119	4,407,271	10/04/83	Schiff			
-	120	4,405,313	09/20/83	Sisley, et al.			
	121	4,384,829	05/24/83	Conely et al.			
	122	4,302,854	12/01/81	Runge			
	123	4,240,409	12/23/80	Robinson et al.			
	124	4,167,046	09/11/79	Portner et al.			
	125	4,154,227	05/15/79	Krause et al.			
	126	4,143,616	03/13/79	Bible			
	127	4,134,402	01/16/79	Mahurkar			
	128	4,135,496	01/23/79	Chazov et al.			
	129	4,080,958	3/19/78	Bregman et al.			
	130	4,077,394	03/07/78	McCurdy			
	131	4,051,840	10/4/77	Kantrowitz et al.			
	132	4,047,849	09/13/77	Clay			
	133	4,034,742	07/12/77	Thoma			
	134	4,004,299	01/25/77	Runge			
	135	3,964,479	06/22/76	Boag et al.			
	136	3,939,820	02/24/76	Grayzel			

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTY, DOCKET NO. ORQIS.007A

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	U.S. PATENT DOCUMENTS									
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)			
	137	3,885,251	05/27/75	Pedrosa			_			
	138	3,835,864	9/17/79	Rasor et al.						
	139	3,692,018	09/19/72	Goetz et al.						
	140	3,592,184	07/13/71	Watkins et al.						
	141	3,017,885	1/19/62	Robicsek						
	142	2,935,068	05/30/60	Donaldson						
	143	2,876,769	03/10/59	Cordova						

	FOREIGN PATENT DOCUMENTS							
EXAMINER		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS	LATION
INITIAL							YES	NO
-	144	2 174 151A	01/10/85	UK				
	145	SU 1,303,165 A2	1/19/85	Russia				***************************************
	146	0,232,074	01/22/87	Europe				
	147	0 405 749 A1	05/25/90	EPO				
	148	0 533 432 A1	03/24/93	EPO				
	149	WO 94/05347	03/17/94	wo				
	150	WO 97/15228	05/01/97	wo				
	151	WO 98/14225	03/10/97	РСТ				
	152	WO 98/34676	08/13/98	РСТ				,
	153	WO 99/19010	04/22/99	РСТ				
	154	WO 99/42156	08/26/99	РСТ				
	155	WO 00/61207	10/19/00	РСТ				
	156	WO 00/76577	12/21/00	РСТ				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLODING ACTION, TITLE, DATE, FRANCE)				
	157	JAMA, January 8, 1968. Vol. 203. No 2, Initial Clinical Experience with Intra-aortic Balloon Pumping in Cardiogenic Shock. PP 113-118			
	158	Article: A Mechanical Auxiliar Ventricle. PP M340-344.			

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)				
	159	Article: Effect of Stationary Guiding Vanes on Improvement of the Washout Behind the Rotor in Centrifugal Blood Pumps: PP M220-224			
	160	Article: Concepts in the Application of Pneumatic Ventricular Assist Devices for Ischemic Myocardial Injury. PP 162-168			
	161	Article: Long-Term Left Ventricular Assist Device Use Before Transplantation: PP M530-M534			
	162	Article: In Vitro Characterization of a Magnetically Suspended Continuous Flow Ventricular Assist Device: PP M359-M360			
	163	Article: Estimation of Left Ventricular Function in Patients With a Left Ventricular Assist device: M544-551			
	164	Article: Long Term Follow Up of Survivors of Postcardiotomy Circulatory Support. Ruzevich et al.; 4535, A.S.A.I.O. Transactions 34 (1988) April-June, No. 2, Hagerstown, MD, USA. PP 116-124			
	165	Article: Hemodynamic Effects of the Concomitant Use of Intra-Aortic Balloon Pumping and Venoarterial Bypass without Oxygenation in Cardiogenic Shock. Takamoto et al. Intra-Aortic Pumping & Ventroarterial Bypass. Vol. 19. No. 3. May-June 1972. PP 244-248.			
	166	Article: Mechanical Cardiopulmonary Support During Arteriography and Surgical Correction of Coronary Insufficiency Producing Myocardial Infarction with Cardiogenic Shock; Carlson et al. Journal of the Association for the Advancement of Medical Instrumentation. Vol. 6, No. 3. May-June 1972; PP 244-248.			
	167	Article: The Sternotomy Hemopump, A Second Generation Intraarterial Assist Device. PP M218-220, 223.			
	168	Article: Transarterial Closed-Chest Left Ventricular (TaCLV) Bypass. PP 386-390.			
	169	Article: Implantable Left Ventricular Assist Device. PP 1522-1533.			
	170	Article: Effects of Partial and Complete Unloading of The Failing Left Ventricle by Transarterial Left Heart Bypass. PP 865-872.			
	171	Article: Hydrodynamic Properties of a New Percutaneous Intra-aortic Axial Flow Pump. Reitan et al. ASAIO Journal 2000. pp. 323-328.			
	172	The Journal of Heart and Lung Transplantation: Mechanical and Biological Support, Article: Bridge to Transplantation with the CardioWest Total Artificial Heart: The International Experience 1993 to 1995, Vol. 15, No. 1, Part 1, PP 94-99.			
	173	US Patent Application Publication No. 2002/0111577 Sirimanne, et al. published August 15, 2002.			
·	174	US Patent Application Publication No. 2002/0188166 Viole, et al. published December 12, 2002.			
	175	US Patent Application Publication No. 2002/0188167 Viole, et al. published December 12, 2002.			
	176	US Patent Application Publication No. 2003/0069468 Bolling, et al. published April 10, 2003.			
·	177	US Patent Application Publication No. 2003/0144628 Sirimanne published July 3, 2003.			
	178	US Patent Application Publication No. 2003/0187367 Odland published October 2, 2003.			

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